NuSTEC

- web page: http://nustec.fnal.gov/
- Goal: achieve a better understanding of neutrino interactions with nucleons and nuclei
 - Event generator improvement
 - Improve funding and opportunities for neutrino-oriented nuclear theorists









NuInt 2018

Nutrit 18 is the 12th of a series of welchings devoted to the discussion of neutrino-nucleus interactions, in the broad internation regime interact to astrochesical antificitions and accelerator-based susceites of meaning conditions.

News

April 11 - Registrations are opened
What is NuSTEC?

NuSTEC school NuSTEC News Nuste conference series Waterland operations and the schools

laSTEC is a collaboration of theorists and experimentalists promoting and coordinating efforts betwee

- Theorists studying neutrino nucleon/nucleus interactions and related problems
- operimentalists primarily those actively engaged in neutrino nucleus scattering experiments as well as those trying to indentated oscillation experiment systematics. Electron scattering experimentalists are certainly experiment independs bridges, auticular independent principles to the model of the purposes are fall as the behaviour of particles informed the con-

man generators. In goal is to improve our understanding of neutrino interactions with nucleons and nuclei and, practically, get that understanding event senerators.

Along the way we want to expand support for theorists and encourage a growing theoretical community

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NuSTEC White Paper: Status and challenges of neutrino-nucleus scattering

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Michammod Sajaid Afriar (Abgain Muslim University, Algain, India)
 Maria Banham (University of Tarin, Tuain, Italy)
 Omar Benham (Sapienza University of Rome, Rome, Italy)
 Richard Hill (University of Kertucky and Fermilab, USA)

- Richard Hill (University of Kentucky and Fermilab, USA)
 Patrick Hober (Center for neotrino physics, Virginia Tech, Blacksburg, VA, US
 Matalle Jacksburg (Ghent University, Ghent, Belgium)
- Marco Martini (IRFU Saciay, Saciay, France)
 Toru Sato (Osaka, University, Osaka, Japan)
 Rocco Schizella (Old Dominion University and Ja
- Rocco Schladilla (Did Dominion University and Jetterson Lab, Nortolik, VA, USA)
 Jan Soczyk, (nuWto representative, University of Wootlaw, Whooliaw, Poland)

Sara Bolognesi (CEA-IRPU, Saclay, France) Steve Brice (Fermilab, E., USA) Requel Castilla Fernández (Fermilab, IL, USA)

- Neguel Castilla Perinanses (Perinala), IL, USA)
 Den Cherdack (Colorado State University, Fort Collins, CO, USA)
 Steva Dytman (University of Pittaburgh, Pittaburgh, PA, USA)
 Aptly Furmanski (University of Manchester, UK)
- Anty Furmanski (University of Manchester, UK)
 Yoshinari Hayati (NEUT representative, ICRR, Univ. Tokyo, Japan)
 Teppin Katori (Queen Mary University of London, UK)
- Kendal Mahn (Michigan State University, East Lancing, MI, USA)
 Geratio National (Center for neutrino physics, Virginia Tech, Blacksburg, VA, USA)
 Jorge G, Mortlin (co-apokesperson, Fermillab, IL, USA)
 One
- Roberto Petri (Deversity of South Carolina, Columbia, SC, USA)
 Date Perdue (DENE representative, Fermilab, IL, USA)
 Federoo Sanchez (IFAE, Autonomous University of Barcelona, Barcelona, Spain



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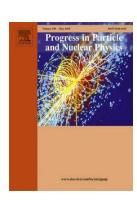
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- Goal: achieve a better understanding of neutrino interactions with nucleons and nuclei; event generator improvement; improve funding and opportunities for neutrino-oriented nuclear theorists
- NuSTEC Board: 17 experimentalists including representatives of:
 - DUNE, MicroBooNE/SBN, MINERVA, NOVA, T2K/HK, GENIE and NEUT
 - Sara Bolognesi (CEA-IRFU, Saclay, France)
 - Steve Brice (Fermilab, IL, USA)
 - Raquel Castillo Fernández (Fermilab, IL, USA)
 - Dan Cherdack (Colorado State University, Fort Collins, CO, USA)
 - Steve Dytman (University of Pittsburgh, Pittsburgh, PA, USA)
 - Andy Furmanski (University of Manchester, UK)
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 - Teppei Katori (Queen Mary University of London, UK)
 - Kendall Mahn (Michigan State University, East Lansing, MI, USA)
 - Camillo Mariani (Center for neutrino physics, Virginia Tech, Blacksburg, VA, USA)
 - Jorge G. Morfin (co-spokesperson, Fermilab, IL, USA)
 - Ornella Palamara (Fermilab, IL, USA)
 - Jon Paley (Fermilab, IL, USA)
 - Roberto Petti (University of South Carolina, Columbia, SC, USA)
 - Gabe Perdue (GENIE representative, Fermilab, IL, USA)
 - Federico Sanchez (IFAE, Autonomous University of Barcelona, Barcelona, Spain)
 - Sam Zeller (Fermilab, IL, USA)

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- NuSTEC Board: 12 theorists, including NuWro representative
 - Luis Alvarez Ruso (co-spokesperson, IFIC, Valencia, Spain)
 - Mohammad Sajjad Athar (Aligarh Muslim University, Aligarh, India)
 - Maria Barbaro (University of Turin, Turin, Italy)
 - Omar Benhar (Sapienza University of Rome, Rome, Italy)
 - Richard Hill (University of Kentucky and Fermilab, USA)
 - Patrick Huber (Center for neutrino physics, Virginia Tech, Blacksburg, VA, USA)
 - Natalie Jachowicz (Ghent University, Ghent, Belgium)
 - Andreas Kronfeld (Fermilab, IL, USA)
 - Marco Martini (IRFU Saclay, Saclay, France)
 - Toru Sato (Osaka, University, Osaka, Japan)
 - Rocco Schiavilla (Old Dominion University and Jefferson Lab, Norfolk, VA, USA)
 - Jan Sobczyk (nuWro representative, University of Wroclaw, Wroclaw, Poland)

- NuSTEC News
- NuSTEC White Paper: Status and challenges of neutrino-nucleus scattering (2017,2018), Prog. Part. Nucl. Phys. 100 (2018) 1-68
 - 44 citations in SPIRES
 - US funding agencies: (+) read, (-) no priorities
- Schools:
- NuSTEC Training in Neutrino Scattering Physics, Fermilab (2014, 2017)
- NuSTEC Neutrino Generator School, Liverpool (2014)
- NuSTEC School, Okayama (2015)
- Workshops:
- IPPP-NuSTEC topical meeting on "neutrino-nucleus scattering", Durham (2017)
- INT Workshop on Elementary amplitudes, Seattle (2018)
- Focussed SIS-DIS Workshop, L'Aquila (2018)
- Board meetings: 2015, 2017 (2), 2018



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- Board meetings: 2015, 2017 (2), 2018
- + several other "NuSTEC-related" activities and projects



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2018

- Oct. 11-13 2018, nuS&DIS Workshop, Gran Sasso Science Institute (GSSI), L'Aquila, Italy
- Aug. 12-18 2018, NuFact18, Virginia Tech
- July 9-13 2018, "Modelling neutrino-nucleus interactions", The European Centre for Theoretical Studies in Nuclear Physics (ECT*)
 Trento, Italy
- June 12-July 13, INT Workshop-18-2a, "Fundamental Physics with Electroweak Probes of Light Nuclei", Univ. Washington, Seattle.
 USA
- April 23-27 2018, "Exploring the role of electro-weak currents in Atomic Nuclei", The European Centre for Theoretical Studies in Nuclear Physics (ECT*), Trento, Italy
- March 12-14 2018, "Neutrino cross section measurement strategy workshop", Fermilab, USA
- Feb. 26-Mar. 30 2018, INT Workshop-18-1a "Nuclear ab initio Theories and Neutrino Physics", Univ. Washington, Seattle, USA
- + several other "NuSTEC-related" activities and projects



- Proposed activities (2019-):
 - Focussed Workshop on resonances
 - NuSTEC School @ CERN (2019 or 2020)
 - Establish priorities
 - Increase smaller-group activities among NuSTEC collaborators...

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Your input is needed! What do you suggest?